CSE 326: Data Structures

Ruth Anderson Winter Quarter 2010 Lecture 1





CSE 326 - Introduction



Course Information

- Instructor: Ruth Anderson, CSE 360
 Office Hours: M & W 3:30-4:30 and by appointment, (rea@cs.washington.edu)
- Text: Data Structures & Algorithm Analysis in Java, (Mark Allen Weiss), 2nd Edition, 2007
- Course Web page: http://www.cs.washington.edu/326

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Communication (1)

Instructors

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- cse326-instr@cs.washington.edu DO not use until Tuesday!
- (or our individual addresses)

Announcements

- cse326a_wi10@u.washington.edu
- (you are automatically subscribed @u)
- · You are responsible for traffic on this list
- · Will be archived on the course web page

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Bring to Class on Friday:

- Name
- · Email address
- Year (1,2,3,4)
- Hometown
- Interesting Fact or what I did over summer/break.



Description









- Abstract Data Type (ADT)
 - Mathematical description of an object with set of operations on the object. Useful building block.
- Algorithm
 - > A high level, language independent, description of a step-by-step process

Data structure

- A specific family of algorithms for implementing an abstract data type.
- · Implementation of data structure
 - A specific implementation in a specific language
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- A stack is an *abstract data type* supporting push, pop and isEmpty operations
- A stack data structure could use an array, a linked list, or anything that can hold data
- One stack *implementation* is found in java.util.Stack

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